U.S. Maps Landings on Moon

BY MARVIN MILES Times Space-Aviation Editor

The National Aeronautics and Space Administration will be deciding shortastronauts will be landed main spacecraft would on the moon in the Apollo have any way of making program and it's a good an emergency landing to program and it's a good spacerraft itself.

In other words, it ap-Inecessary. pears the Apollo command. module will not land, but only one man should make continue to circle the the descent, leaving two man aboard, while a small pressure capsule makes the descent with two as-

In the basic Apollo concept, the main spacecraft being designed for 14 days. is to make the landing on thrust provided by the lunar landing module. It would then become the 21/2 days for the cislunar launch pad taild remain on transfer, one day on the the moon) for Apollo's lift, moon and 242 days for the off on the return flight to

. In this concept all three: astronauts would make the lunar landing.

Would Land Two

The lunar rendezvous technique would land two astronauts in a small pressure vessel for lunar exploration. Then they would launch back into Gary Powers whose cap-moon orbit in this module ture by the Russians moon orbit in this module and join with the main spacecraft in a docking maneuver before heading

for earth. We carried a brief note in this from Cape Canavrai and last week Charles Frick. Apollo project maniger for NASA, acknowldged that the space agency has been studying this possibility.

cimique is decided upon, it will not require any ma-jor revision in the applie spacecraft as our rently planned, Frick said, but can be incorporated into

More Data Needed
There are advantages and disadvantages in both techniques and the tradeoffs involved must be considered very carefully before a decision is made. It's possible NASA may go along both routes for a time until more data is. available 🕾

<u>Lin the case of the lunar</u> renders our operation, we'd like to know if the one astronaut who remains orly just how American biting the moon in the guess it will be by some rescue his teammates in sort of transfer capsule an emergency and if he rather than in the main could make the return flight to earth alone, if

There are some who feel moon in low orbit with one aloft, but this would appear extremely hazardous In view of the unknown factors involved.

Frick also told us Apollo lunar missions are with a week "in the vicinky" of the moon. Heretofore, the figures have been return flight.

The best book we've read in a long time is "The U-2 Affair" by two sharp Washington newspapermen, Tom Ross of the Chicago Sun-Times' and Dave Wise of the New York Herald Tribune.

". It's a fascinating story of the spy plane and pilot wrecked a summit conference. But more particularly it's a story that goes behind the scenes into the high level conferences and the decisions that tangled the government into a beautiful target for Soviet spite and ridicule before the world.

The authors contend the United States all but made It impossible for the sun. If the traditional methods mit meeting to take place with traditional methods "by lying when it could have remained silent, by "yet there is no evidence admitting it had hed, by that the revolutionary im-Presidential disclaiming responsibility, then admitting Presidential responsibility, and finally by implying the flights would continue," 🔏 🖟

"To reverse the circum-

stances is to see the situa tion cleanly," they point out. "If, on the eve of sommit meeting, Khrushchev had threatened to send his planes over New York or Chicago, could Elsenhower - or any other President-have agreed to

Powers' Trial

sit down with him?

Although much of the book is given over to Gary Powers and his plane, the ill-timed flight on May 1, 1960, Powers' Moscow-trial and the undercover arrangements for his return, the book's importance is in its consideration of questions that go far beyoud these areas:

Why, for instance, was the flight ordered just 15 days before the summit; meeting? Was it planned or coincidence?

Ross and Wise conclude the mission was directly related to the summit, but add there is no substantial evidence of any sort, of a conspiracy to scuttle the meeting.

One Last Photo

There was an uneasy feeling in intelligence circles, they explain, that an international rapprochement might be reached at Paris that would make further flights politically impossible for the foreseeable future. There was a strong desire to get one last photo mission in under the wire and the plane was sent despite the fact that there had been previous suspensions in the flight program during periods of international sensitivity.

The authors, who spent months digging into the strange and mysterious events surrounding the U-2 incident, claim that danger was inherent in the sky-spy operation from the

plications of the operation were thought through . there was a tendency on the part of both policy makers and the intelligence men to avoid planning for the worst . .

"There was too much reliance on the technical means of destroying the evidence and not enough awareness of the chance of human or mechanical failuré . . . There was a cover for but it did not cover

all contingencies . . .

Government Not Ready

When disaster struck, the government was not ready, even though the program had been running. for four years. As a result, it stumbled into a series of errors . . . In retrospect, the President realized the crisis had been badly handled . . .

The long-winged U-2, developed by Lockheed's chief designer, Clarence (Kelly) Johnson, had been expected to serve as a spy plane for perhaps a year. In four years of secret work it accomplished an amazing job and became mystically important to the government and the Central Intelligence Agen-

Its demise as an intelling gence tool, the authors say, apparently was brought about by the nearmiss explosion of a groundto-air missile at 68,000 feet.

Most Publicized Spy

And its pilot? The most publicized spy of the cold war. A. man who flew as a vocation, not a dedication. But the work took courage even if the rewards were. ample.

"When his mission failed, many jumped to the conclusion that he was a disloyal American. There was an attempt to make him a scapegoat for all that happened, including the mistakes of the highest officials of the government.

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